



10/664303

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

U. S. PATENT: 6875555

CASE NO.: CL2275USNA

PATENTEE: ANDREW EDWARD FEIRING.
VIACHESLAV
ALEXANDROVICH PETROV,
FRANK LEONARD SCHADT, III

ART UNIT: 1751

ISSUED: APRIL 5, 2005

EXAMINER: ROSEMARY ASHTON

ASSIGNED: E. I. DU PONT DE NEMOURS AND COMPANY

FOR: PREPARATION AND USE OF EXO-2-FLUOROALKYL9BICYCLO[2.2.1]HEPT-5-
ENES

REQUEST FOR CERTIFICATE OF CORRECTION

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The patentee through his attorney hereby respectfully requests that a Certificate of Correction be issued in the above-referenced patent to correct printing errors in accordance with the attached Certificate of Correction Form PTO/SB/44 submitted in duplicate herewith.

Errors were made by the patentee. Please charge the fee as set in 37 CFR 1.20(a) for \$100.00 to Deposit Account No. 04-1928 (E. I. du Pont de Nemours and Company). If this fee is insufficient or incorrect, please charge or credit the balance to the above-identified Deposit Account.

Respectfully submitted,

KONRAD S. KAEDING
ATTORNEY FOR PATENTEE
Registration No.: 32,035
Telephone: (302) 992-2093
Facsimile: (302) 892-7949

12/02/2005 BABRAHA1 00000078 041928 6875555

01 FC:1811 100.00 DA

Dated: 15 AUGUST 2005
Attachment (Form 1050)

Certificate
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of Correction

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PTO/SB/92 (09-04)
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TWO (2) CERTIFICATE OF CORRECTION

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PATENT NO. : 6875555

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INVENTOR(S) : FEIRING ANDREW EDWARD, PETROV VIACHESLAV A., SCHADT, III FRANK LEONARD

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 24, line 34, 38: " R_f and R_f " should read -- R_f and R_f '—

Column 24, line 45: "comonomer is a fluorolefin" should read --comonomer is a fluoroolefin—

Column 24, Structure I and Structure II: that portion of the formula reading
" $\text{CH}_2\text{C}(\text{R}_f\text{R}_f')\text{OH}$ " should read -- $\text{CH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}$ —

Column 24, line 67: " R_f is perfluoromethyl." should read -- R_f' is perfluoromethyl—

Column 25, line 5: "dioxole), perfluoro-(2-methylene-4-methyl-1,3-dioxolane)," should read --dioxole),
perfluoro-(2-methylene-4-methyl-1,3-dioxolane),—

Column 25, line 7: " $R_f\text{OCF}=\text{CF}_2$ wherein R_f is a fluoroalkyl" should read -- $R_f'\text{OCF}=\text{CF}_2$ wherein R_f' —

Column 25, line 24: "2-tetrahydropyranyl acrylate, 2-tetrahydrofuranyl acrylate" should read
--2-tetrahydropyranyl acrylate, 2-tetrahydrofuranyl acrylate—

Column 25, line 29: "endo- and exo-2-bicyclo[2.2.1]hept-5-en-2-yl)-2,2-" should read --endo- and
exo-2-(bicyclo[2.2.1]hept-5-en-2-yl)-2,2—

Column 25, line 34: "substituted norbornene with $\text{ICH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}$;" should read --substituted norbornene
with $\text{ICH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}$ —

MAILING ADDRESS OF SENDER (Please do not use customer number below):

KONRAD S. KAEDING
E. I. du Pont de Nemours and Company
4417 Lancaster Pike
Wilmington, Delaware 19805

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Column 25, line 48, 58: that portion of the structure reading " $\text{CH}_2\text{C}(\text{R}_f\text{R}_f')\text{OH}$ " should read $-\text{CH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}-$

Column 26, line 6: that portion of the structure reading " $\text{CH}_2\text{C}(\text{R}_f\text{R}_f')\text{OH}$ " should read $-\text{CH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}-$

Column 26, line 16, 56: " R_f is perfluoromethyl." should read $-\text{R}_f'$ is perfluoromethyl-

Column 26, line 62: "dioxole), perfluoro-(2-methylene-4-methyl-1,3-dioxolane)," should read $-\text{dioxole),}$
 $\text{perfluoro-(2-methylene-4-methyl-1,3-dioxolane),-}$

Column 26, line 63: " $\text{R}_f\text{OCF}=\text{CF}_2$ wherein R_f is a fluoroalkyl group of from 1" should read $-\text{R}_f'\text{OCF}=\text{CF}_2$
 wherein R_f' is a fluoroalkyl group of from 1-

Column 27, line 15: "2-tetrahydropyranyl acrylate, 2-tetrahydrofuranyl acrylate" should read
 $-\text{2-tetrahydropyranyl acrylate, 2-tetrahydrofuranyl acrylate}-$

Column 27, line 30, 43: that portion of the structure reading " $\text{CH}_2\text{C}(\text{R}_f\text{R}_f')\text{OH}$ " should read $-\text{CH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}-$

Column 27, line 45: "wherein the R_f and R_f' groups" should read $-\text{wherein the } \text{R}_f \text{ and } \text{R}_f' \text{ groups}-$

Column 27, line 51: " R_f is perfluoromethyl." should read $-\text{R}_f'$ is perfluoromethyl-

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It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 28, line 11: "2-tetrahydropyranyl acrylate, 2-tetrahydrofuranyl acrylate" should read
 --2-tetrahydropyranyl acrylate, 2-tetrahydrofuranyl acrylate--

Column 28, line 29, 40: that portion of the structure reading " $\text{CH}_2\text{C}(\text{R}_f\text{R}_f')\text{OH}$ " should read $-\text{CH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}-$

Column 28, line 43: "wherein the R_f and R_f' groups" should read --wherein the R_f and R_f' groups--

Column 28, line 58: " R_f is perfluoromethyl." should read -- R_f is perfluoromethyl--

Column 28, line 64: "dioxole), perfluoro-(2-methylene-4-methyl-1,3-dioxolane)," should read --dioxole),
 perfluoro-(2-methylene-4-methyl-1,3-dioxolane)--

Column 30, line 7: "2 tetrahydrofuranyl acrylate, and 2-hydroxy-1,1,2-" should read --2-tetrahydrofuranyl
 acrylate, and 2-hydroxy-1,1,2--

Column 2, lines 7, 22, 48, 58: that portion of the structure reading " $\text{CH}_2\text{C}(\text{R}_f\text{R}_f')\text{OH}$ " should read
 $-\text{CH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}-$

Column 3, lines 6, 26, 39, 60: that portion of the structure reading " $\text{CH}_2\text{C}(\text{R}_f\text{R}_f')\text{OH}$ " should read
 $-\text{CH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}-$

Column 4, line 7, 24, 36: that portion of the structure reading " $\text{CH}_2\text{C}(\text{R}_f\text{R}_f')\text{OH}$ " should read $-\text{CH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}-$

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It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 5, line 41: that portion of the structure reading "CH₂C(R_fR_f')OH" should read -CH₂C(R_f)(R_f')OH-

Column 6, line 18: that portion of the structure reading "CH₂C(R_fR_f')OH" should read -CH₂C(R_f)(R_f')OH-

Column 10, line 13, 60: that portion of the structure reading "CH₂C(R_fR_f')OH" should read
-CH₂C(R_f)(R_f')OH-

Claim 1: that portion of the structure reading "CH₂C(R_fR_f')OH" should read --CH₂C(R_f)(R_f')OH--.

Claim 1: "wherein the R_f and R_f' groups" should read --wherein the R_f and R_f' groups--.

Claim 2: "wherein the R_f and R_f' groups" should read --wherein the R_f and R_f' groups--.

Claim 5: "comonomer is a fluorolefin" should read --comonomer is a fluoroolefin--.

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It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Claim 6: that portion of the structure reading " $\text{CH}_2\text{C}(\text{R}_f\text{R}_f')\text{OH}$ " should read -- $\text{CH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}$ --.

Claim 6: "wherein the R_f and R_f' groups" should read --wherein the R_f and R_f' groups--.

Claim 9: "wherein at least one of R_f and R_f' is perfluoromethyl" should read --wherein at least one of R_f and R_f' is perfluoromethyl--.

Claim 10: "perfluoro-(2-methylene-4-methyl-1,3-dioxolane)," should read --perfluoro-(2-methylene-4-methyl-1,3-dioxolane)--.

Claim 10: "and $\text{R}_f\text{-OCF}=\text{CF}_2$ wherein R^f is" should read --and $\text{R}_f\text{-OCF}=\text{CF}_2$ wherein R^f is--.

Claim 14: "2-tetrahydrofuranyl acrylate" should read -- 2-tetrahydrofuranyl acrylate--.

Claim 16: that portion of the structure reading " $\text{CH}_2\text{C}(\text{R}_f\text{R}_f')\text{OH}$ " should read -- $\text{CH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}$ --.

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Claim 16: "and exo-2-bicyclo[2.2.1]hept-5-en-2-yl)-2,2-fluoroalkyl-ethan-2-ol whereof" should read --and exo-2-(bicyclo[2.2.1]hept-5-en-2-yl)-2,2-fluoroalkyl-ethan-2-ol whereof--.

Claim 16: "wherein in the foregoing structures the R_f and $R_{f'}$ groups" should read --wherein in the foregoing structures the R_f and $R_{f'}$ groups--.

Claim 17: "wherein at least one of R_f and $R_{f'}$ is perfluoromethyl" should read --wherein at least one of R_f and $R_{f'}$ is perfluoromethyl--.

Claim 22: that portion of the structure reading " $\text{CH}_2\text{C}(\text{R}_f\text{R}_{f'})\text{OH}$ " should read -- $\text{CH}_2\text{C}(\text{R}_f)(\text{R}_{f'})\text{OH}$ --.

Claim 23: "wherein at least one of R_f and $R_{f'}$ is perfluoromethyl" should read --wherein at least one of R_f and $R_{f'}$ is perfluoromethyl--.

Claim 24: "perfluoro-(2-methylene-4-methyl-1,3-dioxolane)," should read --perfluoro-(2-methylene-4-methyl-1,3-dioxolane),--.

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Claim 24: "and $R_f\text{-OCF}=\text{CF}_2$ wherein R^f is" should read --and $R_f\text{-OCF}=\text{CF}_2$ wherein R^f is--.

Claim 29: "2-tetrahydrofuranyl acrylate" should read -- 2-tetrahydrofuranyl acrylate--.

Claim 31: that portion of the structure reading " $\text{CH}_2\text{C}(\text{R}_f\text{R}_f')\text{OH}$ " should read -- $\text{CH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}$ --.

Claim 31: "wherein the R_f and $R_{f'}$ groups" should read --wherein the R_f and $R_{f'}$ groups--.

Claim 32: "wherein at least one of R_f and $R_{f'}$ is perfluoromethyl" should read --wherein at least one of R_f and $R_{f'}$ is perfluoromethyl--.

Claim 38: "2-tetrahydrofuranyl acrylate" should read -- 2-tetrahydrofuranyl acrylate--.

Claim 41: that portion of the structure reading " $\text{CH}_2\text{C}(\text{R}_f\text{R}_f')\text{OH}$ " should read -- $\text{CH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}$ --.

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Claim 43: "wherein at least one of R_f and $R_{f'}$ is perfluoromethyl" should read --wherein at least one of R_f and $R_{f'}$ is perfluoromethyl--.

Claim 44: "perfluoro-(2-methylene-4-methyl-1,3-dioxolane)," should read --perfluoro-(2-methylene-4-methyl-1,3-dioxolane)--.

Claim 49: "2-tetrahydrofuranyl acrylate" should read -- 2-tetrahydrofuranyl acrylate--.

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Column 25, line 29: "endo- and exo-2-bicyclo[2.2.1]hept-5-en-2-yl)-2,2-" should read --endo- and
 exo-2-(bicyclo[2.2.1]hept-5-en-2-yl)-2,2--

Column 25, line 34: "substituted norbornene with $\text{ICH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}$;" should read --substituted norbornene
 with $\text{ICH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}$;

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PATENT NO. : 6875555

APPLICATION NO.: 10/664303

ISSUE DATE : APRIL 5, 2005

INVENTOR(S) : FEIRING ANDREW EDWARD, PETROV VIACHESLAV A., SCHADT, III FRANK LEONARD

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 25, line 48, 58: that portion of the structure reading " $\text{CH}_2\text{C}(\text{R}_f\text{R}_f')\text{OH}$ " should read $-\text{CH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}-$

Column 26, line 6: that portion of the structure reading " $\text{CH}_2\text{C}(\text{R}_f\text{R}_f')\text{OH}$ " should read $-\text{CH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}-$

Column 26, line 16, 56: " R_f is perfluoromethyl." should read $-\text{R}_f^f$ is perfluoromethyl-

Column 26, line 62: "dioxole), perfluoro-(2-methylene-4-methyl-1,3-dioxolane)," should read --dioxole), perfluoro-(2-methylene-4-methyl-1,3-dioxolane),--

Column 26, line 63: " $\text{R}_f\text{OCF}=\text{CF}_2$ wherein R_f " is a fluoroalkyl group of from 1" should read $-\text{R}_f^f\text{OCF}=\text{CF}_2$ wherein R_f^f is a fluoroalkyl group of from 1-

Column 27, line 15: "2-tetrahydropyranyl acrylate, 2-tetrahydrofuranyl acrylate" should read --2-tetrahydropyranyl acrylate, 2-tetrahydrofuranyl acrylate--

Column 27, line 30, 43: that portion of the structure reading " $\text{CH}_2\text{C}(\text{R}_f\text{R}_f')\text{OH}$ " should read $-\text{CH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}-$

Column 27, line 45: "wherein the R_f and R_f' groups" should read --wherein the R_f and R_f' groups--

Column 27, line 51: " R_f is perfluoromethyl." should read $-\text{R}_f^f$ is perfluoromethyl-

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PATENT NO. : 6875555

APPLICATION NO.: 10/664303

ISSUE DATE : APRIL 5, 2005

INVENTOR(S) : FEIRING ANDREW EDWARD, PETROV VIACHESLAV A., SCHADT, III FRANK LEONARD

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 28, line 11: "2-tetrahydropyranyl acrylate, 2-tetrahydrofuranyl acrylate" should read
--2-tetrahydropyranyl acrylate, 2-tetrahydrofuranyl acrylate--

Column 28, line 29, 40: that portion of the structure reading " $\text{CH}_2\text{C}(\text{R}_f\text{R}_f')\text{OH}$ " should read $-\text{CH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}-$

Column 28, line 43: "wherein the R_f and R_f' groups" should read --wherein the R_f and R_f' groups--

Column 28, line 58: " R_f is perfluoromethyl." should read -- R_f is perfluoromethyl--

Column 28, line 64: "dioxole), perfluoro-(2-methylene-4-methyl-1,3-dioxolane)," should read --dioxole),
perfluoro-(2-methylene-4-methyl-1,3-dioxolane),--

Column 30, line 7: "2 tetrahydrofuranyl acrylate, and 2-hydroxy-1,1,2-" should read --2-tetrahydrofuranyl
acrylate, and 2-hydroxy-1,1,2--

Column 2, lines 7, 22, 48, 58: that portion of the structure reading " $\text{CH}_2\text{C}(\text{R}_f\text{R}_f')\text{OH}$ " should read
 $-\text{CH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}-$

Column 3, lines 6, 26, 39, 60: that portion of the structure reading " $\text{CH}_2\text{C}(\text{R}_f\text{R}_f')\text{OH}$ " should read
 $-\text{CH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}-$

Column 4, line 7, 24, 36: that portion of the structure reading " $\text{CH}_2\text{C}(\text{R}_f\text{R}_f')\text{OH}$ " should read $-\text{CH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}-$

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UNITED STATES PATENT AND TRADEMARK OFFICE
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PATENT NO. : 6875555
APPLICATION NO.: 10/664303
ISSUE DATE : APRIL 5, 2005
INVENTOR(S) : FEIRING ANDREW EDWARD, PETROV VIACHESLAV A., SCHADT, III FRANK LEONARD

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 5, line 41: that portion of the structure reading "CH₂C(R_fR_f')OH" should read --CH₂C(R_f)(R_f')OH--

Column 6, line 18: that portion of the structure reading "CH₂C(R_fR_f')OH" should read --CH₂C(R_f)(R_f')OH--

Column 10, line 13, 60: that portion of the structure reading "CH₂C(R_fR_f')OH" should read
--CH₂C(R_f)(R_f')OH--

Claim 1: that portion of the structure reading "CH₂C(R_fR_f')OH" should read --CH₂C(R_f)(R_f')OH--.

Claim 1: "wherein the R_f and R_f' groups" should read --wherein the R_f and R_f' groups--.

Claim 2: "wherein the R_f and R_f' groups" should read --wherein the R_f and R_f' groups--.

Claim 5: "comonomer is a fluorolefin" should read --comonomer is a fluoroolefin--.

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PATENT NO. : 6875555

APPLICATION NO.: 10/664303

ISSUE DATE :

INVENTOR(S) : FEIRING ANDREW EDWARD, PETROV VIACHESLAV A., SCHADT, III FRANK LEONARD

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Claim 6: that portion of the structure reading " $\text{CH}_2\text{C}(\text{R}_f\text{R}_f')\text{OH}$ " should read -- $\text{CH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}$ --.

Claim 6: "wherein the R_f and R_f' groups" should read --wherein the R_f and R_f' groups--.

Claim 9: "wherein at least one of R_f and R_f' is perfluoromethyl" should read --wherein at least one of R_f and R_f' is perfluoromethyl--.

Claim 10: "perfluoro-(2-methylene-4-methyl-1,3-dioxolane)," should read --perfluoro-(2-methylene-4-methyl-1,3-dioxolane)--.

Claim 10: "and $\text{R}_f\text{-OCF}=\text{CF}_2$ wherein R^f is" should read --and $\text{R}_f\text{-OCF}=\text{CF}_2$ wherein R^f is--.

Claim 14: "2-tetrahydrofuranyl acrylate" should read -- 2-tetrahydrofuranyl acrylate--.

Claim 16: that portion of the structure reading " $\text{CH}_2\text{C}(\text{R}_f\text{R}_f')\text{OH}$ " should read -- $\text{CH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}$ --.

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PATENT NO. : 6875555

APPLICATION NO.: 10/664303

ISSUE DATE :

INVENTOR(S) : FEIRING ANDREW EDWARD, PETROV VIACHESLAV A., SCHADT, III FRANK LEONARD

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Claim 16: "and exo-2-bicyclo[2.2.1]hept-5-en-2-yl)-2,2-fluoroalkyl-ethan-2-ol whereof" should read --and exo-2-(bicyclo[2.2.1]hept-5-en-2-yl)-2,2-fluoroalkyl-ethan-2-ol whereof--.

Claim 16: "wherein in the foregoing structures the R_f and $R_{f'}$ groups" should read --wherein in the foregoing structures the R_f and $R_{f'}$ groups--.

Claim 17: "wherein at least one of R_f and $R_{f'}$ is perfluoromethyl" should read --wherein at least one of R_f and $R_{f'}$ is perfluoromethyl--.

Claim 22: that portion of the structure reading " $\text{CH}_2\text{C}(\text{R}_f\text{R}_{f'})\text{OH}$ " should read -- $\text{CH}_2\text{C}(\text{R}_f)(\text{R}_{f'})\text{OH}$ --.

Claim 23: "wherein at least one of R_f and $R_{f'}$ is perfluoromethyl" should read --wherein at least one of R_f and $R_{f'}$ is perfluoromethyl--.

Claim 24: "perfluoro-(2-methylene-4-methyl-1,3-dioxolane)," should read --perfluoro-(2-methylene-4-methyl-1,3-dioxolane)--.

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Page 7 of 8

PATENT NO. : 6875555

APPLICATION NO.: 10/664303

ISSUE DATE :

INVENTOR(S) : FEIRING ANDREW EDWARD, PETROV VIACHESLAV A., SCHADT, III FRANK LEONARD

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Claim 24: "and $R_f\text{-OCF}=\text{CF}_2$ wherein R^f is" should read --and $R_f\text{-OCF}=\text{CF}_2$ wherein R^f is--.

Claim 29: "2-tetrahydrofuranyl acrylate" should read -- 2-tetrahydrofuranyl acrylate--.

Claim 31: that portion of the structure reading " $\text{CH}_2\text{C}(R_f R_f')\text{OH}$ " should read -- $\text{CH}_2\text{C}(R_f)(R_f')\text{OH}$ --.

Claim 31: "wherein the R_f and R_f' groups" should read -wherein the R_f and R_f' groups--.

Claim 32: "wherein at least one of R_f and R_f' is perfluoromethyl" should read --wherein at least one of R_f and R_f' is perfluoromethyl--.

Claim 38: "2-tetrahydrofuranyl acrylate" should read -- 2-tetrahydrofuranyl acrylate--.

Claim 41: that portion of the structure reading " $\text{CH}_2\text{C}(R_f R_f')\text{OH}$ " should read -- $\text{CH}_2\text{C}(R_f)(R_f')\text{OH}$ --.

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INVENTOR(S) : FEIRING ANDREW EDWARD, PETROV VIACHESLAV A., SCHADT, III FRANK LEONARD

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Claim 41: "wherein the R_f and $R_{f'}$ groups" should read --wherein the R_f and $R_{f'}$ groups--.

Claim 43: "wherein at least one of R_f and $R_{f'}$ is perfluoromethyl" should read --wherein at least one of R_f and $R_{f'}$ is perfluoromethyl--.

Claim 44: "perfluoro-(2-methylene4-methyl-1,3-dioxolane)," should read --perfluoro-(2-methylene-4-methyl-1,3-dioxolane),--.

Claim 49: "2-tetrahydrofuramyl acrylate" should read -- 2-tetrahydrofuranyl acrylate--.

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